

# Version Notes 2.3.28

✔ These are the notes for the Struts 2.3.28 distribution.

✔ For prior notes in this release series, see [Version Notes 2.3.20](#)

- If you are a Maven user, you might want to get started using the [Maven Archetype](#).
- Another quick-start entry point is the **blank** application. Rename and deploy the WAR as a starting point for your own development.
- There is huge number of examples you can also use as a starting point for you application [here](#)

## Maven Dependency

```
<dependency>
  <groupId>org.apache.struts</groupId>
  <artifactId>struts2-core</artifactId>
  <version>2.3.28</version>
</dependency>
```

You can also use Struts Archetype Catalog like below

## Struts Archetype Catalog

```
mvn archetype:generate -DarchetypeCatalog=http://struts.apache.org/
```

## Staging Repository

```
<repositories>
  <repository>
    <id>apache.nexus</id>
    <name>ASF Nexus Staging</name>
    <url>https://repository.apache.org/content/groups/staging/</url>
  </repository>
</repositories>
```

## Internal Changes

- ⚠ Possible XSS vulnerability in pages not using UTF-8 was fixed, read more details in [S2-028](#)
- ⚠ Prevents possible RCE when reusing user input in tag's attributes, see more details in [S2-029](#)
- ⚠ `I18NInterceptor` narrows selected locale to those available in JVM to reduce possibility of another XSS vulnerability, see more details in [S2-030](#)
- New `ConfigurationProvider` type was introduced - [ServletContextAwareConfigurationProvider](#), see [WW-4410](#)
- Setting status code in `HttpHeaders` isn't ignored anymore, see [WW-4545](#)
- Spring `BeanPostProcessor(s)` are called only once to constructed objects., see [WW-4554](#)
- OGNL was upgraded to version 3.0.13, see [WW-4562](#)
- Tiles 2 Plugin was upgraded to latest available Tiles 2 version, see [WW-4568](#)
- A dedicated assembly with minimal set of jars was defined, see [WW-4570](#)
- Struts2 Rest plugin properly handles JSESSIONID with DMI, see [WW-4585](#)
- Improved the Struts2 Rest plugin to honor Accept header, see [WW-4588](#)
- `MessageStoreInterceptor` was refactored to use `PreResultListener` to store messages, see [WW-4605](#)
- A new annotation was added to support configuring Tiles - `@TilesDefinition`, see [WW-4606](#)
- and many other small improvements, please see the release notes

This release contains fix related to [S2-028](#), [S2-029](#) and [S2-030](#) security bulletins, please read it carefully!

## Issue Detail

- [JIRA Release Notes 2.3.28](#)

## Issue List

- [Struts 2.3.28 DONE](#)
- [Struts 2.3.x TODO](#)

## Other resources

- [Commit Logs](#)
- [Source Code Repository](#)